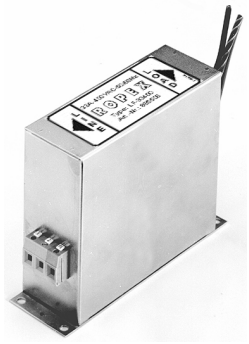
RESISTRON

LF-xx480 GB

Operating Instructions



To comply with EMC directives – corresponding to EN 50081-1 and EN 50082-2 – RESISTRON and CIRUS control loops must be operated with interference suppression filters.

The use of a suitable line filter is part of the standards conformity and a prerequisite of the CE mark.

These filters damp the reaction of the phase-angle control on the line and protect the controller against system disturbances.
ROPEX line filters are specially optimized for use in RESISTRON and CIRUS control loops. Providing they are installed and wired correctly, they guarantee compliance with the EMC limit values.
Please do not hesitate to contact us if you require design support for applications that are susceptible to extreme loads.

Technical data

	LF-06480	LF-35480
Maximum voltage	480 VAC, 50/60 Hz	
Continuous current (Ta = +40 °C)	6.0 A	35.0 A
Maximum pulse load (Ta = +40 °C) Duty cycle = 60 % Duty cycle = 40 % Duty cycle = 20 % Duty cycle = 11 %	 7.5 A 9.5 A 13.0 A 18.0 A	 45.0 A 55.0 A 78.0 A 105.0 A
Max. pulsed current (Ta=+40 °C)	18.0 A	105.0 A
Cable connections	6.3 x 0.8 mm flat connector	Cable connection terminals Rigid: 0.2…10 mm Flexible: 0.2…6 mm
Approvals	EN 133200, EN 60950	
Ambient temperature	-10 °C ≤ Ta ≤ +85 °C	
Derating	Specified current values at Ta = +40 °C Ta = 0 °C: Specified current values x 1.35 Ta = +20 °C: Specified current values x 1.20 Ta = +60 °C: Specified current values x 0.75 Ta = +80 °C: Specified current values x 0.35	
Power dissipation	max. 6 W	max. 15 W

ROPEX

Installation steps

Installation and startup may only be performed by suitably trained persons who are familiar with the associated risks and warranty provisions.

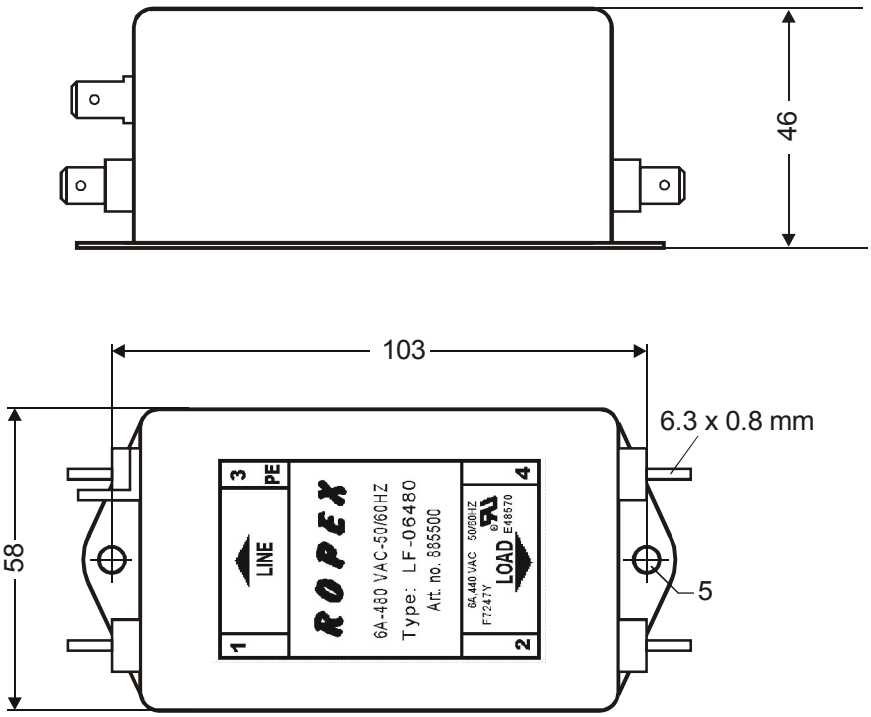
1. Disconnect the supply voltage.
2. Screw the line filter onto a galvanized mounting plate, using sufficient screws to make contact over a large area.
3. Connect the mounting plate to ground potential by means of a grounding cable (cross-section ≥ 25mm², max. 1.5m long).
4. The connecting cable to the control loop on the output side must not be longer than 1.0m, nor must it intersect any other current-conducting cables.
5. The input and output wires of the line filter must not be laid parallel.
6. Please comply with the wiring installation procedure described in the relevant controller documentation (☞ "Installation procedure" and "Startup and operation" sections).

It is permissible to supply several RESISTRON or CIRUS control loops with a single filter, providing the total current does not exceed the maximum current of the filter.

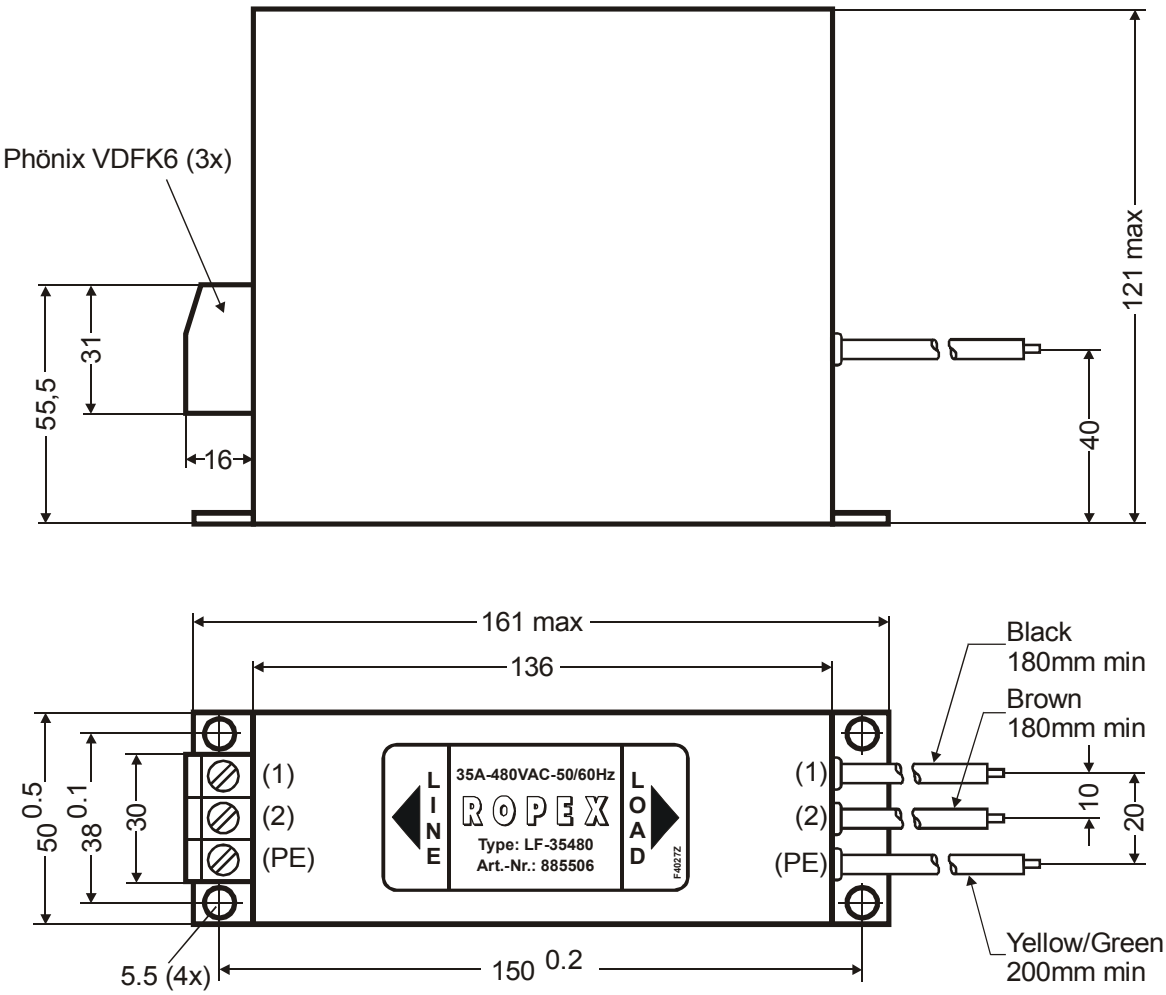
The parallel installation of two filters (same type) is permissible when the connecting cables are installed symmetrically. The total current shall not exceed the double maximum current of one filter.

Dimensions

Line filter LF-06480



Line filter LF-35480



How to order

Line filter LF- . . 480

06: Continuous current 6A, 480VAC, Art. No. 885500
35: Continuous current 35A, 480VAC, Art. No. 885506